

WHAT IS CLAIMED IS:

1 1. A system for pump priming comprising:

2 a first pump, the first pump comprising an inlet and an outlet, wherein the inlet is adapted
3 to a suction force and the outlet is adapted to a pressure force;

4 a second pump, the second pump comprising an inlet and an outlet, wherein the inlet is
5 adapted to a suction force and the outlet is adapted to a pressure force;

6 a tube, wherein a first end of the tube is connected to the outlet of the first pump and a
7 second end of the tube is connected to the inlet of the second pump, the tube being adapted
8 for a flow from the first pump to the second pump and capable of removing air from any one
9 of the first and second pumps, and the combination of the first and second pumps.

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11 2. The system of claim 1 wherein the tube is a bleeder.

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13 3. The system of claim 2 wherein the bleeder comprises a smaller diameter than of any
14 one of a diameter of the inlet and a diameter of the outlet of either the first and second
15 pumps.

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17 4. The system of claim 3 wherein the diameter of the bleeder is 3/8 inches.

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19 5. The system of claim 1 wherein the system is adapted to force air out of any one of the
20 first and second pumps, wherein the system is further adapted for suctioning air out of any
21 one of the first and second pumps.

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23 6. The system of claim 1 wherein the system is adapted to utilize a push force of the first
24 pump and a pull force of the second pump to remove air out of any one of the first and
25 second pumps.

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27 7. The system of claim 6 wherein the system is further adapted to utilize a push force of
28 the first pump and a pull force of the second pump to fill any one of the first and second
29 pumps with a fluid.

31 8. The system of claim 1 wherein the first pump is adapted to prime the second pump,
32 and wherein the second pump is adapted to prime the first pump.

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34 9. The system of claim 1 wherein the inlets and outlets of the first and second pumps are
35 connected to a circulation system comprising tubes, pipes, and connectors.

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37 10. The system of claim 1 wherein the second pump is adapted to send the removed air
38 through the second pump's outlet.

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40 11. The system of claim 1 wherein the second pump is adapted to send the removed air
41 through a bleeder connected to a top portion of the second pump and to an air exit.

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43 12. A multi-pump system for pump priming comprising:
44 two or more fluid pumps, wherein each fluid pump comprises an inlet and an outlet,
45 wherein each inlet is adapted to a suction force and each outlet is adapted to a pressure force;
46 at least one tube configured to remove air from the two or more fluid pumps, the at least
47 one tube being connected between the two or more fluid pumps, wherein a first end of the at
48 least one tube is connected to the outlet of a fluid pump and a second end of the at least one
49 tube is connected to the inlet of a different fluid pump, the at least one tube being adapted for
50 a flow from the fluid pump to the different fluid pump.

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52 13. The multi-pump system of claim 12 wherein the at least one tube configured to
53 remove air comprises a smaller diameter than of any one of a diameter of the inlet and a
54 diameter of the outlet of the two or more fluid pumps.

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56 14. The multi-pump system of claim 12 wherein two or more of the tubes that are
57 configured to remove air are connected in a daisy-chain arrangement, wherein the tube
58 connections are in series between the inlet of one of the fluid pumps and the outlet of one of
59 a different fluid pump.

61 15. The multi-pump system of claim 12 wherein the two or more pumps are primed
62 simultaneously.

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64 16. The multi-pump system of claim 12 wherein the system is adapted for self-priming at
65 least one fluid pump.

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67 17. A method for multi-pump priming comprising:
68 pushing a gas out of a first pump, wherein the gas comprises air in the first pump, the first
69 pump being adapted for pumping fluid, the first pump comprising an inlet and an outlet,
70 wherein the outlet is configured for a pressure force;
71 suctioning the gas out of the first pump with a second pump, the second pump being
72 adapted for pumping fluid, the second pump comprising an inlet and an outlet, wherein the
73 inlet is configured for a suction force, wherein the gas flows through a tube connected
74 between the outlet of the first pump and the inlet of the second pump, wherein the tube is
75 configured for removing air from the first pump.

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77 18. The method of claim 17 wherein the tube configured to remove air comprises a
78 smaller diameter than of any one of a diameter of the inlet and a diameter of the outlet of the
79 first and second pumps.

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81 19. The method of claim 18 wherein the method is adapted for self-priming the first and
82 second pumps.

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84 20. The method of claim 18 further comprising sending the removed air through the
85 outlet of the second pump.

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87 21. The method of claim 18 further comprising sending the removed air through a bleeder
88 connected to a top portion of the section pump and further to an air exit.

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90 22. The method of claim 17 wherein the inlets and outlets of the first and second pumps
91 are connected to a fluid circulation system comprising tubes, pipes, and connectors.

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93 23. The method of claim 17 wherein the tube is further configured for a flow of fluid after
94 the gas exits the first pump.

95
96 24. A system comprising a spa, the spa comprising:
97 at least two fluid pumps, the two fluid pumps comprising an inlet and an outlet, wherein
98 each inlet is configured for a suction force and each outlet is configured for a pressure force;
99 at least one bleeder connected between an outlet of one of the fluid pumps and an inlet of
100 a different fluid pump, the bleeder being adapted to remove air from at least one of the fluid
101 pumps; the bleeder further being adapted for priming at least one of the fluid pumps; and
102 a fluid circulation system, wherein the fluid circulation system comprises one or more
103 filters, wherein the circulation system is connected to at least one of the fluid pumps.

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105 25. The system of claim 24 wherein the bleeder adapted to remove air comprises a
106 smaller diameter than of any one of a diameter of the inlet and a diameter of the outlet of the
107 at least two fluid pumps.

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109 26. The system of claim 24 wherein the fluid circulation system further comprises a
110 heater and a water jet.

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112 27. The system of claim 24 wherein the at least two fluid pumps comprise self-priming
113 pumps.

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115 28. The system of claim 27 wherein the at least two fluid pumps are primed
116 simultaneously.